## IN THE CLAIMS:

1. (Currently Amended) A driving method for a solid-state image sensing device having a plurality of sensor portions being-disposed arranged two-dimensionally in a horizontal and a vertical directions, and a vertical charge transfer portion being-disposed between adjacent said plurality of sensor portions and being provided with transfer electrodes of a plurality of systems disposed along its disposed direction, comprising the steps of:

selectively applying high level driving pulses to groups of said transfer electrodes of said plurality of systems in respective sectional periods in a vertical transfer period; and

transferring the signal charges read out from said plurality of sensor portions in the vertical direction;

wherein a sectional period in during a vertical transfer operation period, in which the number of systems of said groups of transfer electrodes to be applied with receiving high level driving pulses becomes minimum is set longer than that of the other sectional periods.

2. (Currently Amended) A driving method for a solid-state image sensing device according to claim 1, having wherein said individual groups of transfer electrodes of said plurality of systems being composed of are correspondingly associated with four systems and the vertical transfer period being is divided into eight sections from periods t1 through t8, wherein sectional periods t2, t4, t6 and t8, those in which the number of systems groups of said transfer electrodes to be applied with the receiving high level driving pulses becomes is two, are set longer than the sectional periods t1, t3, t5 and t7, those in which the number of systems groups of said transfer electrodes to be applied with receiving said high level driving pulses becomes three.

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3. (Currently Amended) A driving method for a charge transfer device having a charge transfer portion being formed of and transfer electrodes of a plurality of systems different groups disposed in the charge transfer direction, comprising the steps of:

selectively applying a high level driving pulse to said transfer electrodes of said plurality of systems in respective sectional periods in a transfer period; and

transferring signal charges in a charge transfer portion;

wherein a sectional period <u>during a charge in said</u> transfer <u>operation period</u>, in which the number of <u>groups systems</u> of said transfer electrodes <u>receiving to be applied with high</u> level driving pulses becomes minimum <u>is are set</u> longer than that of the other sectional periods.

- 4. (Currently Amended) A driving method for charge transfer devices according to claim 3, having said wherein the groups of transfer electrodes of said plurality of systems being composed of are correspondingly associated with four systems and the vertical transfer period being operation is divided into eight periods sections from t1 through t8, wherein the sectional periods t2, t4, t6 and t8, those in which the number of systems groups of said transfer electrodes to be applied with the receiving high level driving pulses is becomes two, are set longer than the sectional periods t1, t3, t5 and t7, those in which the number of systems groups of said transfer electrodes to be applied with receiving high level driving pulses is becomes three.
- 5. (Currently Amended) A charge transfer device having a charge transfer portion being formed of with transfer electrodes of a plurality of systems disposed in the charge transfer direction:

wherein high level driving pulses are <u>selectively</u> applied to <u>different groups of</u> said transfer electrodes <del>of said plurality of systems</del> in respective <u>time</u> <del>sectional</del> periods <del>in</del> <u>during</u> a charge transfer <u>operation</u> <del>period</del>;

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signal charges in a the charge transfer portion are transferred; and

a sectional period in a charge transfer operation period, in which a the number of systems groups of said transfer electrodes to be applied with receiving high level driving pulses becomes minimum is set longer than that of the other sectional periods.